

ABSTRACT OF THE DISCLOSURE

A communications channel that receives a user data sequence including N symbols and that supports host CRC includes a host bus interface (HBI) that generates cyclic redundancy check (CRC_U) bits based on the user data sequence. A data dependent scrambler (DDS) receives the user data sequence and the CRC_U bits and generates a scrambling seed. The DDS generates a scrambled user data sequence that is based on the user data sequence and the scrambling seed and generates a difference sequence.